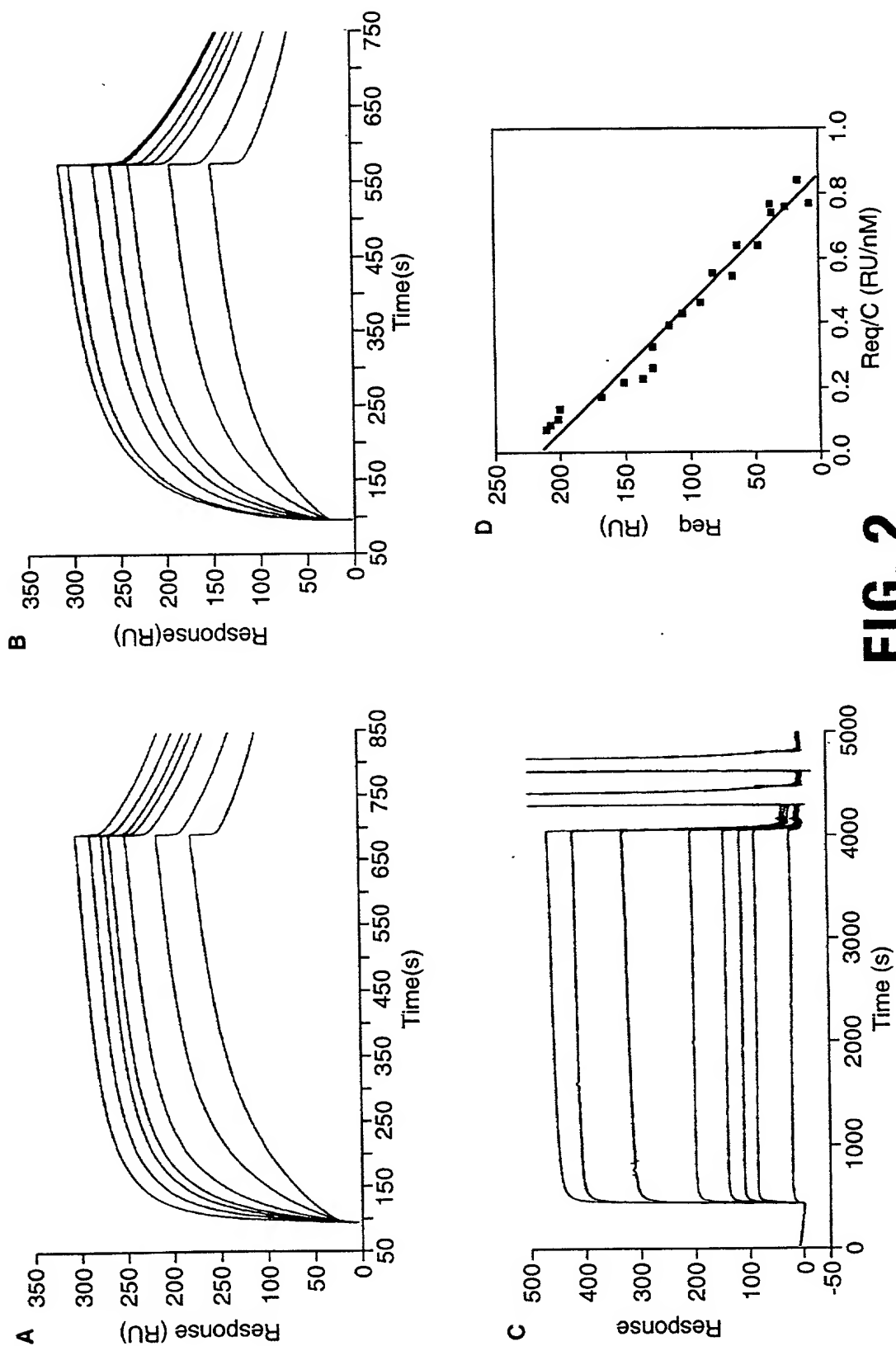


[illegible][illegible]

FIG. 1

**FIG. 2**

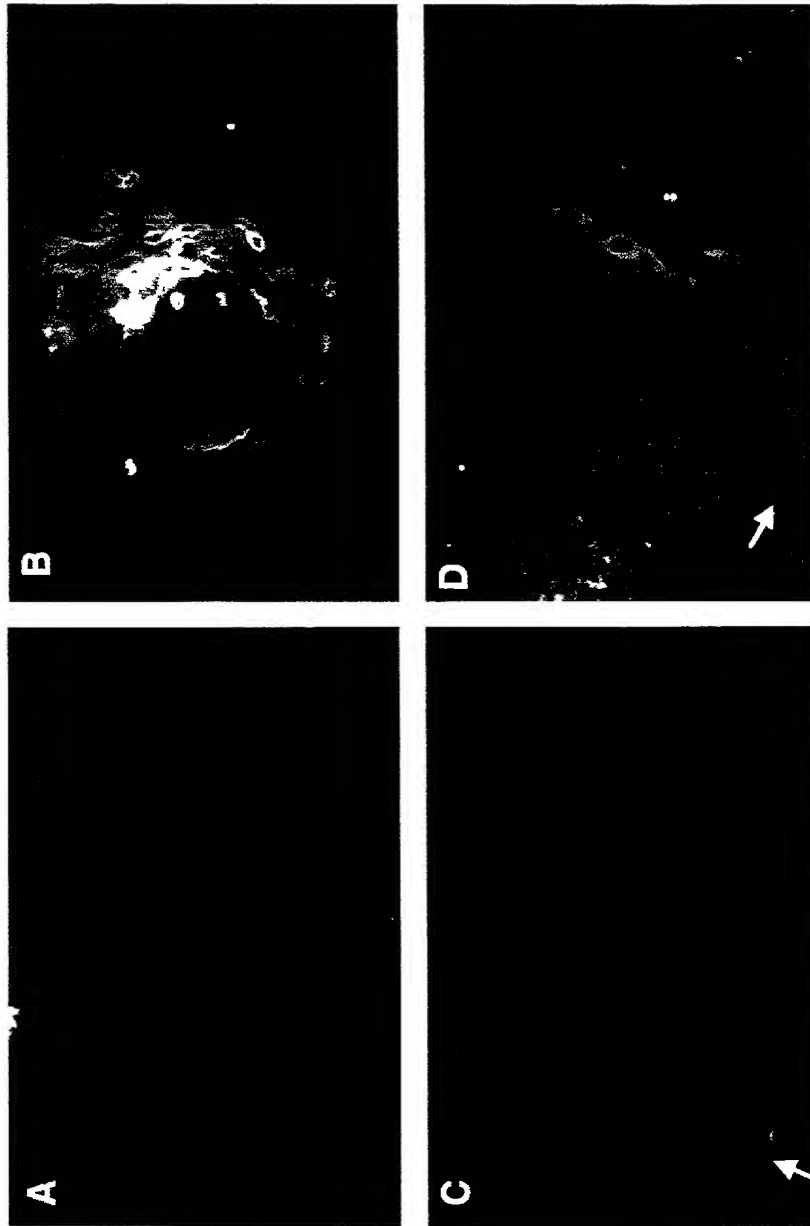


FIG. 3

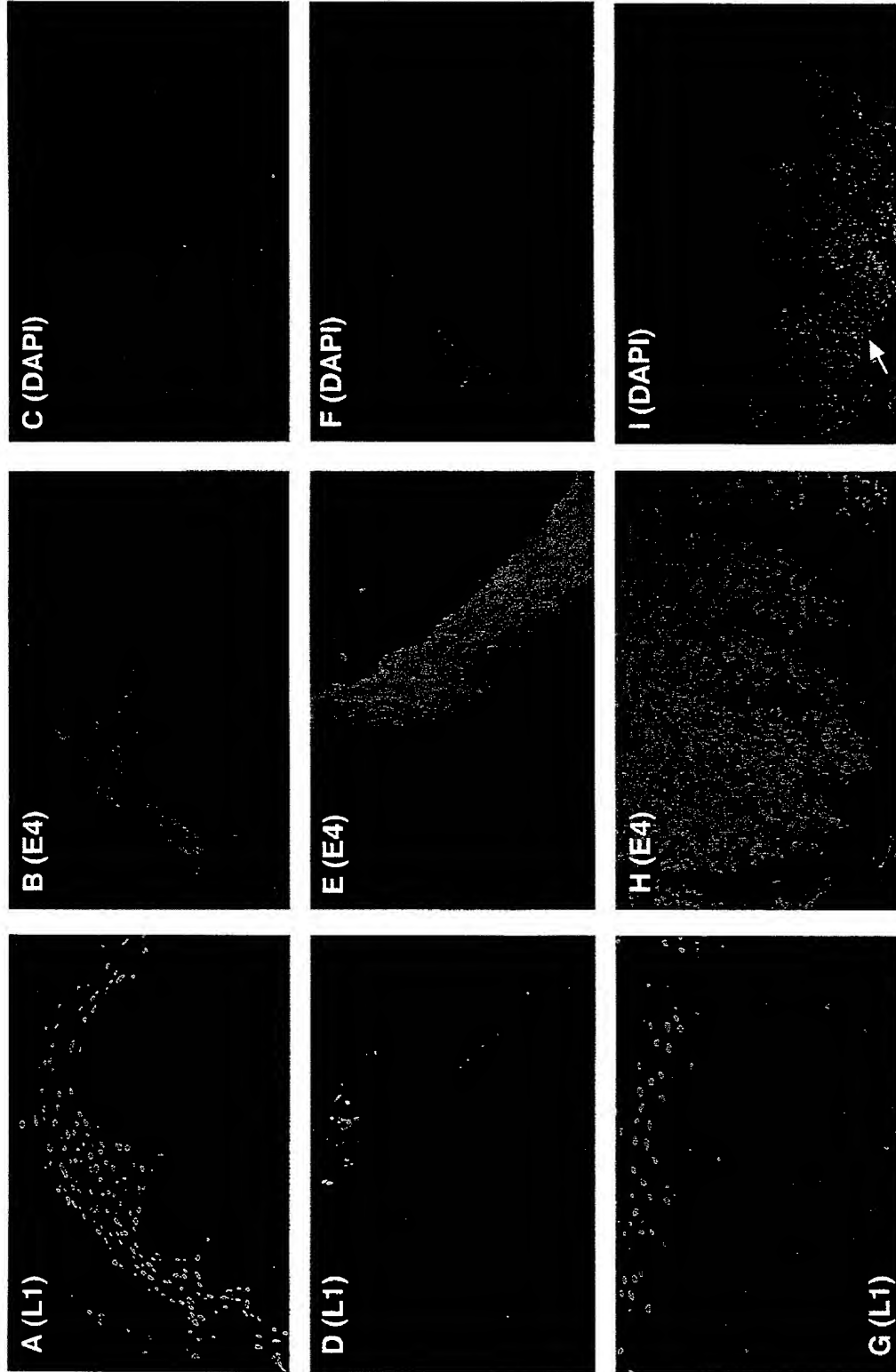


FIG. 4

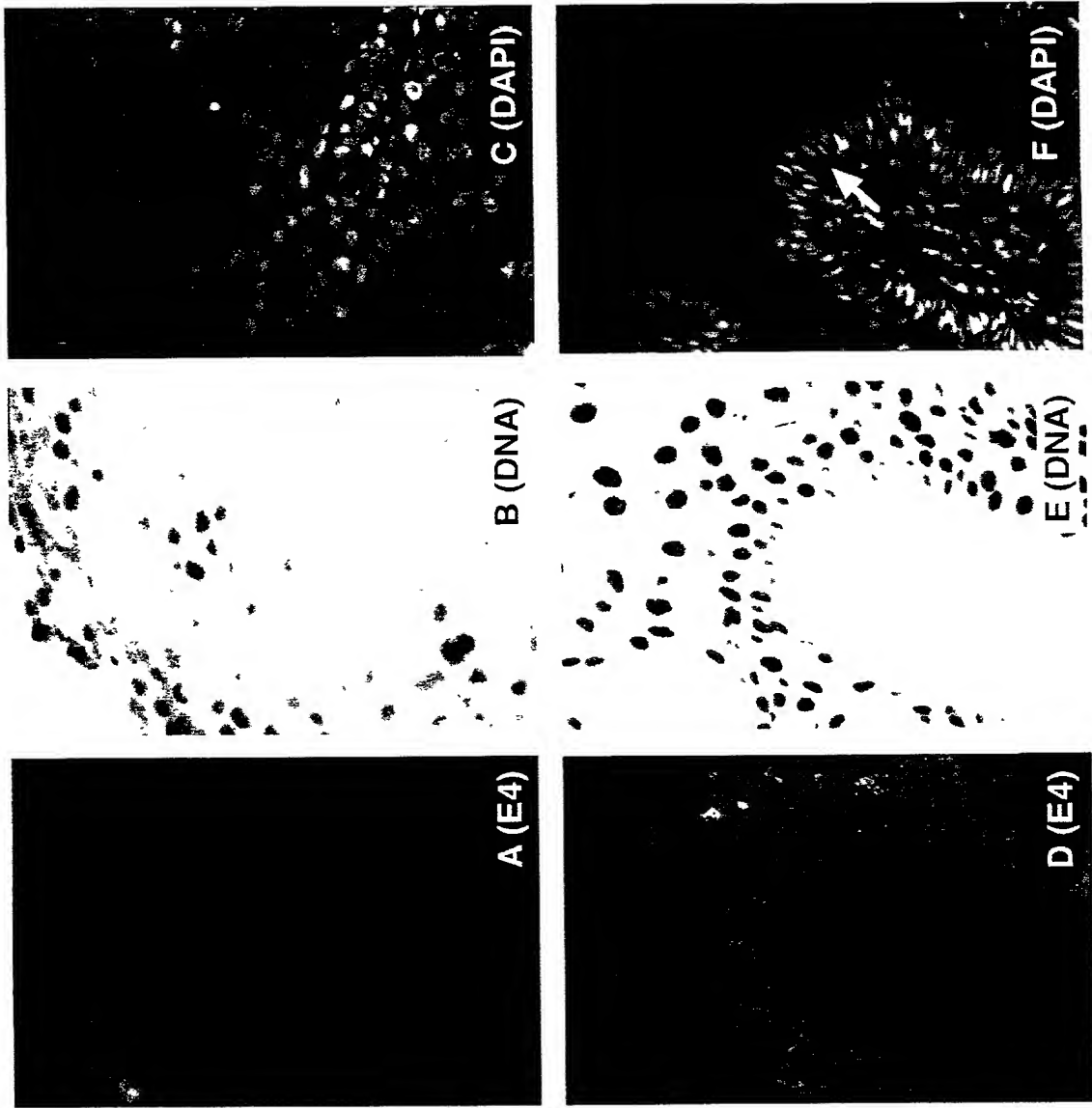


FIG. 5

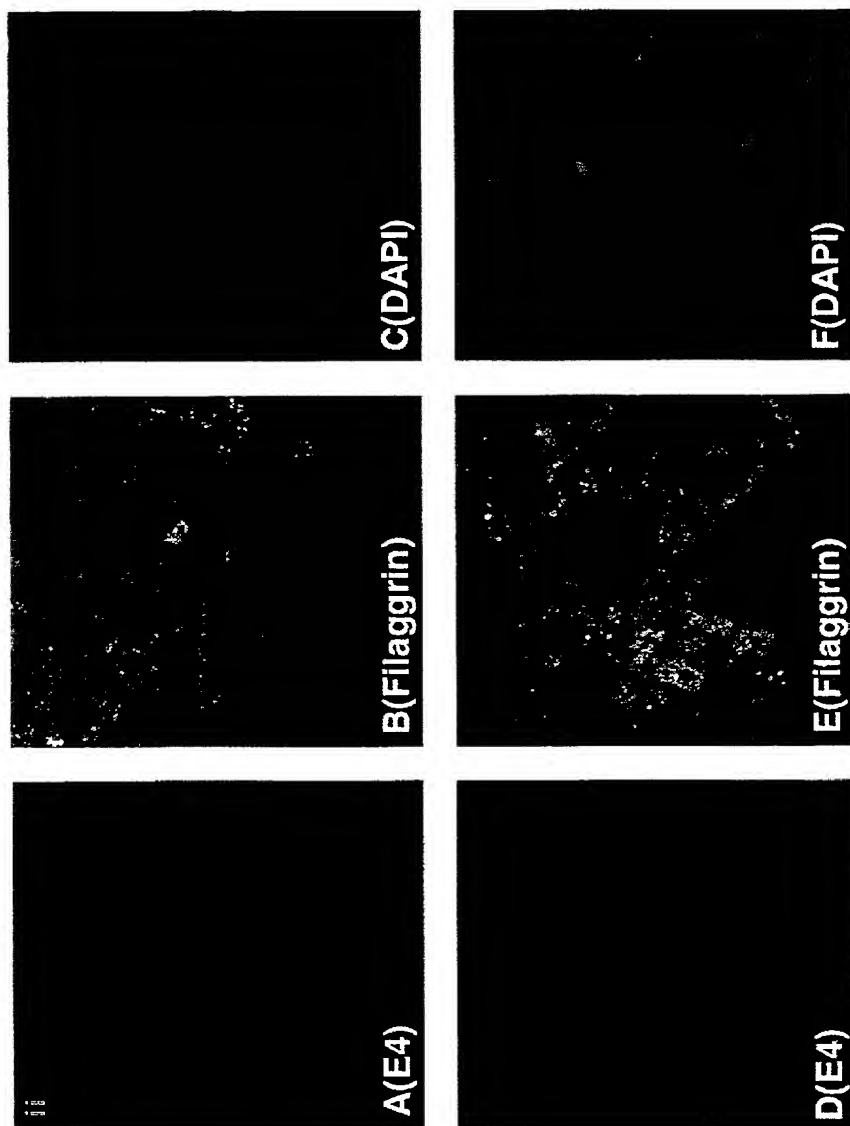


FIG. 6(i)

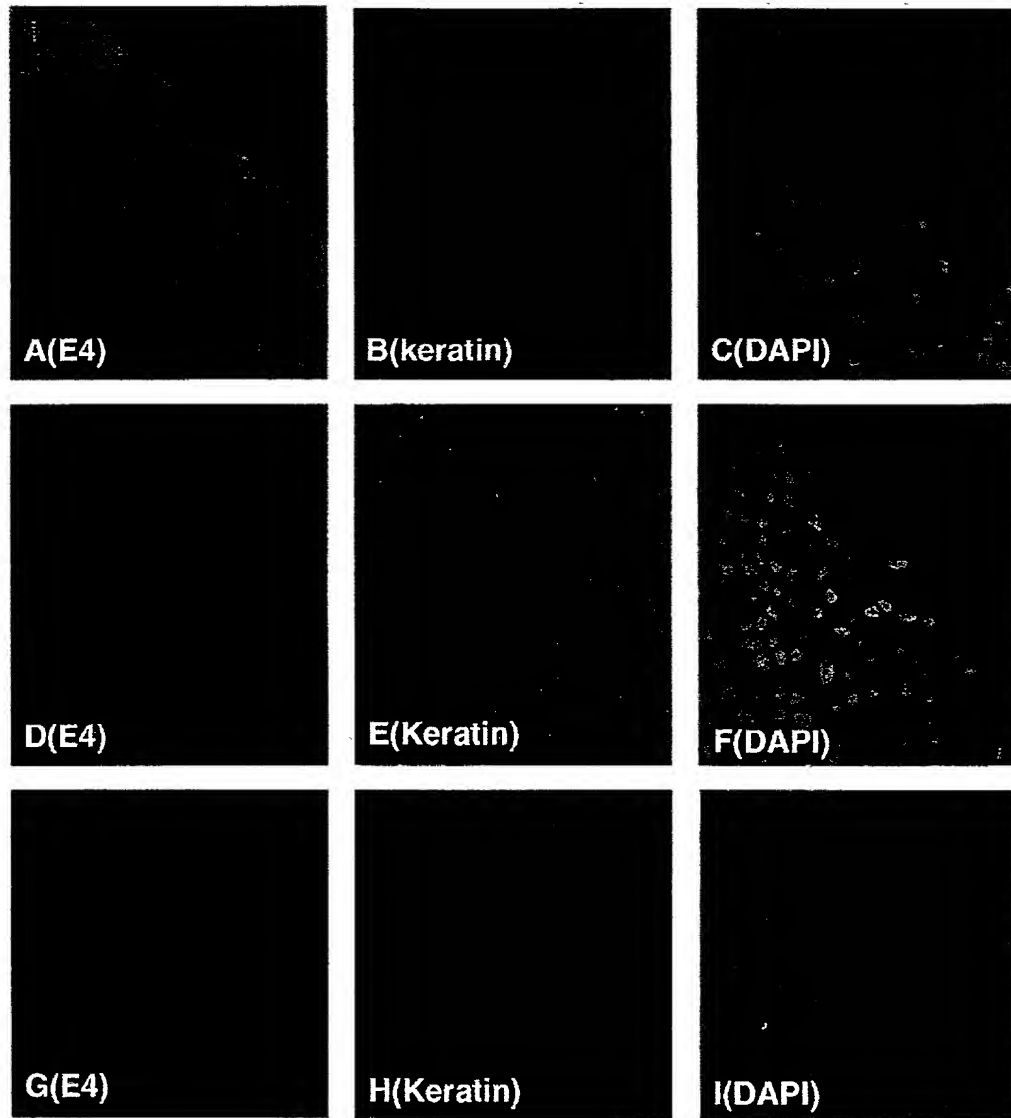


FIG. 6(ii)

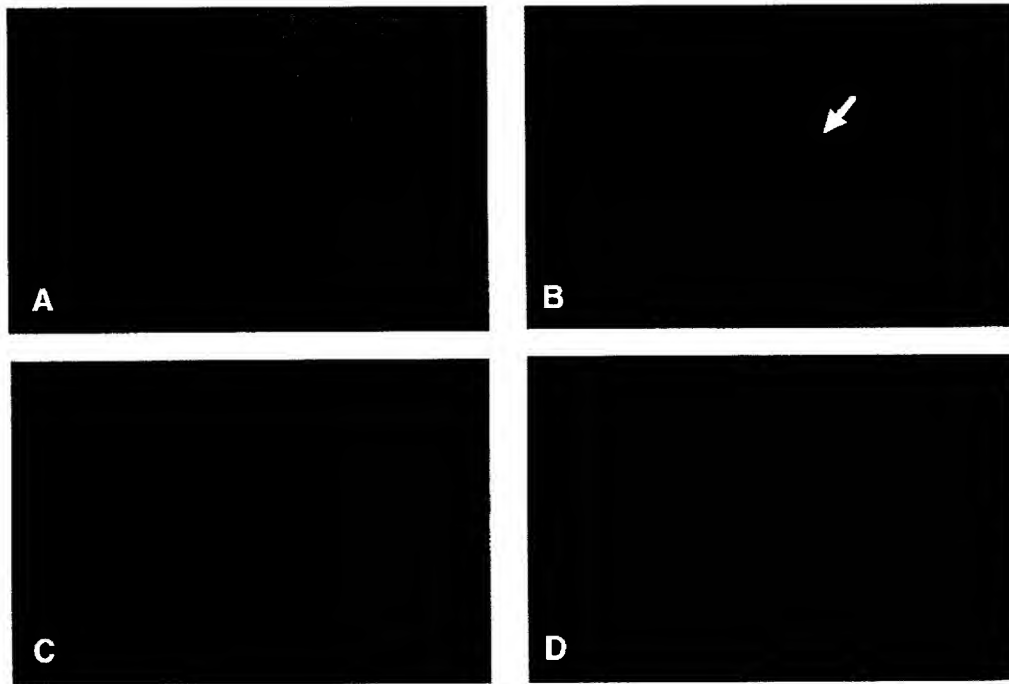


FIG. 7

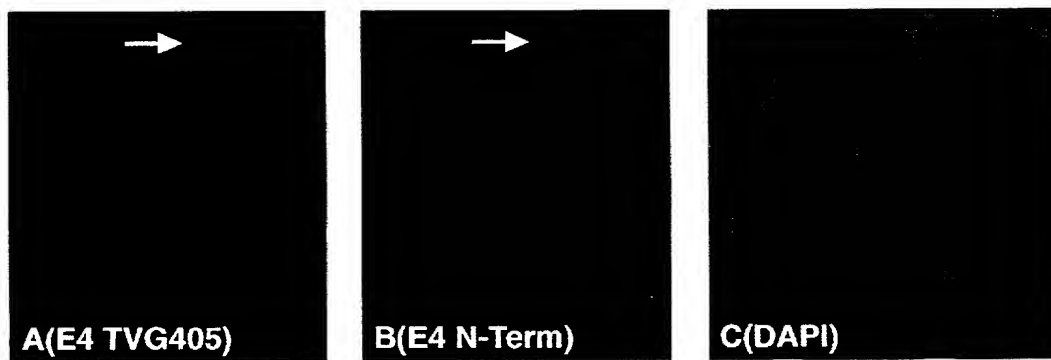


FIG. 8

CHARGED REGION....

most-likely	.....	PPPPP.RP..WAGPKKP.....TRGPPRRRRL....E..SDS.....	51
HPV54	.....	HH...V...TT.-Q-Q...SRA.....NEL.....	43
HPV32	.....	-SQGV.TA..TOTAQTEY...Y-KT--PP-R.....N-T.....	61
HPV42	.....	-L..T.TT..TQTVOTEQ...HT-C.-SKPH-H.....N-T.....	59
HPV3	.....	K-RWA.--KDRS-SD...SDS.....ST...GS.-S.....	46
HPV28	.....	K-RWA.--KDRS-ND...SDS.....HST...G.-S.....	46
HPV10	.....	K-RWA.--RDRN-SD...SDS.....ST...D.-T.....	46
HPV29	.....	K-RWG.LR..RDRNGNDA..GLKQSGLGHS...S.-S.....	52
HPV61	.....	---A.--P-RH-...PRC.....I.....	49
HPV2a	.....	QEEQLR--KR..C-P-RRQ...RV.....PS...A.-V.....	61
HPV27	.....	EQEQLR-Q.TC..C-P-RRH...RV.....PS...A.-G.....	58
HPV57	.....	QS.....HSRTPPRR...HRV.....HPS...A.-G.....	53
HPV26	.....	-T...C.--R--...HTQ.....D.....	45
HPV51	.....	L...PA.....HNS.....N-X.....	42
HPV30	.....	---T--...RP...PHGR.....NVL.....	46
HPV53	.....	---T--H...HPC...G-E...N.VPE.....	44
HPV56	.....	---T--T...QY...PT...D.QEN.....	42
HPV66	.....	---L--...RY...PT...D.QEN.....	42
HPV18	.....	A...C...-QR-...A.....L.H-L.....	44
HPV45	.....	K...H...-QM-...S.....L.-L.....	44
HPV39	.....	-Q...Q...H-...Q...S.....-L.....	43
HPV70	.....	-Q...Q...H-...L...S.....A.-VE.....	43
HPV59	.....	K...T...-RG-...V.....-Q.....	44
HPV7	.....	-T--C..TT.-PT-...C...-PPK...Y.TTT.....	45
HPV40	.....	-T--T.P...PQR-P-R...S.A-P-H-P...-E.....	48
HPV16	.....	K...S...-H-...S...-Q.....	41
HPV35h	.....	K...A...-Q--...-QIT...N.DFE.....	43
HPV31	.....	K...A...-V-V...C.GG...L.-Q.....	46
HPV52	.....	-Q...C...-V--TH...TYN...HH...N.D-D.....	40
HPV33	.....	...HH-Q...PN...D.D-L.....	30
HPV58	.....	...TTK...V...H-G...Q.-D.....	29
RhPV1	.....	-T...P.-R-T...C...GH--...Q.-EC.....	43
HVP6b	.....	-L...C...Q.-R-T...OC...K--...G.NEH.....	40
HPV11	.....	...LQ...C...P.-R-T...AC...G.-EH.....	41
HVP44	.....	...HR-H-HC-...L-P-RTA...W--...HV...N.DPE.....	48
HVP55	.....	...HR-HLHC-...P-P-RNA...W--...HV...N.DPE.....	48
HVP13	.....	...Q...C...A.-R-N...VC...K--...V.N-N.....	43
PCPV1	.....	...AQ...CH..PS.-Q-I...VC...K--PI...N.DFE.....	44
HPV34	.....	...-THRTR...VC...QHGN...G.I--...35	
HPV19	.....	...GTRDDLPAAGPDDK...K.-A..RN.DQG-N...PSP-RG-G-G...F.RLTGDHDPN	93
HPV25	.....	...PPAGHDDSKPKRARGDQG-S-G...GP.SPA-V...SD--RG-G-G...NL.-RLSGDQDP	105
HPV20	.....	...CTDGDLPVQGGEQ-K.-A..RGDGGQS...PSPS-G-G-GR...G.TGLGLGLGL	91
HPV21	.....	...GTDGDRPVGPGER-K.-I..KG-DRG-...SP-RG-G-GR...G.-PDPGPDP	90
HPV14d	.....	...EGTDADRVPVGPGER-K.-G..RG-DRG-...SP-RG-G-G...G.-LDPGRNR	92
HPV5	.....	SQGDKRKSKGDQGPDTGPGGLGPGRG-S-K.-T...LGP-PG-G...PR-S-RLGPLQ...A.DRDPEE...	115
HPV36	.....	...QGDRKRSKGDQGPDTDPLGPDRG-S-G...T-Q.PL-LPP-...GL--R-SP--...G.-SGYQPD...	114
HPV47	.....	QGDRTKGDPPDPGRGPVLKPTL-----P...PT--GLRRSTRLVLV-QGPPPP...D.LPA.....	116
HPV12	.....	...GDRKRSKGDQGRDTAPSLTPGRA-S-K.-G...L-P-PY...GPP--R-SH--...G.TGGRD...	107
HPV8	.....	...QDRKRSKGDQGRDTAPGLAPGRS-GL-G...L-P-PY...GP--R-SP-Q...F.GPGPDRDPE	111
HPV24	.....	...PLTPDADDDPRPGKRSKGDHEG-A-G.-A..A-PL-LDL.DPPQ-G-DQPPG...A.TGG.....	102
HPV15	.....	...TTEKNLALQP--GG.-KD.KDKD--TQ..QGDK--QGDK...K.-PG.....	86
HPV17	.....	...DTGGKRLALQ--P.-G.TKD-TS...DDQ--HGGDK...Q.-PG.....	79
HPV37	.....	...EEKHLALQ---GK..KDKE-T-Q..QGDK--PGGNK...Q.PPG.....	82
HPV9	.....	...PPPGKDRDKEKEKEKEKEK.K.-TT-D-G...DP.RVEQPK...G.EG.....	93
HPV22	.....	...LVLQSP-SGGKGE..RKD--Q...QGEEK-DQGP...-AP.....	74
HPV23	.....	...KHLALQ--G.GK..KDKE--S...PGEEK-DQGP...G.AE.....	71
HPV38	.....	...DTGEXHLALQ---AG..KGKD-EK...PQA-KGEEK...A.DQG.....	71
HPV49	.....	...TLVLQPPPTPGKRSRDDDPGLEPG-ADGK.-A..PQ-----AVPD-DPDLPL...DPEGP	120
HPV4	.....	...-SRRA.LL..EG-NRGN...P--P-PLKPREYD..Y-E.....	57
HPV65	.....	...-SL-R.-ALVVG-NRGNL..NRPPQR-PKP-GY...-Y-E.....	57
HPV48	.....	...LE.GD.-A..SQKTP-...S.-P-HP...D.YE.....	49
HPV50	.....	...ANRKD.LE..AV.NQ--Y...R-PNH-P-HQ...Q.Y-F.....	50
HPV60	.....	...L...T..EDR-H-R...ESLAL---V...FDYDAE.....	55
BPV1	.....	...-SLSL.LC..S.-PPA...V...PS...-QA.....	45
BPV2	.....	...-SLSL.LC..S.-PPA...Y...PS...-QA.....	44
EEPV	.....	...-TQ-T.E-...CLTLLD...N...PPF...V.AP.....	44
DPV	.....	...TL...LL..E-T-FTV...PS...E...A.KTG.....	46
BPV4	.....	...-DL-E.T...G--SRGR...S-LRD-DHGH...DH.DRL.....	50
HPV41	.....	...-QRYR.DR..RGRDDAET..RKRGSRSPQLS...-DEE.....	38
COPV	.....	...L--GK.GR..HG-LDGG...-RGSPEGQ...-DEE.....	48
CRPV	.....	...OG-K-.-VH--DEGQ...G...HQG...C.NEG.....	51
ROPV	.....	...LOY-Q.A-..RT.IR--...RSSRY-G-F...V.T-GGDPDPQ	55
HPV1a	.....	...T-SN.-R..PSTTPNS...QD--R--SDK...D.-RK.....	50
HPV63	.....	...KL-EKO-R..RGRDTTR...N...--LF...A.-G.....	46
MnPV	.....	...I-...-V..SLQD-TT...GGNQQR---G...-RGA.....	59

FIG. 9

FIG. 9 CONT'D